Rec'd PCT/PTO 19 OCT 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 30 October 2003 (30.10.2003)

PCT

(10) International Publication Number WO 03/090482 A1

(51) International Patent Classification?: H04Q 7/00

(21) International Application Number: PCT/FI03/00288

(22) International Filing Date: 14 April 2003 (14.04.2003)

(25) Filing Language: Eng

(26) Publication Language:

English English

(30) Priority Data:

10/126,623 22 April 2002 (22.04.2002) US PCT/IB02/02537 1 July 2002 (01.07.2002) IB 10/319,475 16 December 2002 (16.12.2002) US

- (71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KOPRA, Toni [FI/FI]; Hirvitie 15 A B 6, FIN-01450 Vantaa (FI). MÄKIPÄÄ, Mikko [FI/FI]; Airoranta 9 A, FIN-00830 Helsinki (FI). ANTTILA, Akseli [FI/FI]; Pajalahdentie 6 B 25, FIN-00200 Helsinki (FI).
- (74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki (FI).
- (81) Designated States (national): AE, AG, AI, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,

CH. CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, II., IN, IS, JP, KE, KG, KP, KK, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TT, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

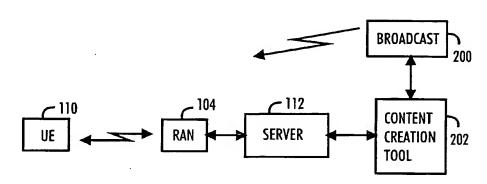
(84) Designated States (regional): ARIPO utility model (GH), ARIPO patent (GII), ARIPO utility model (GM), ARIPO patent (GM), ARIPO utility model (KE), ARIPO patent (KE), ARIPO utility model (LS), ARIPO patent (LS), ARIPO utility model (MW), ARIPO patent (MW), ARIPO utility model (MZ), ARIPO patent (MZ), ARIPO utility model (SD), ARIPO patent (SD), ARIPO utility model (SL), ARIPO patent (SL), ARIPO utility model (SZ), ARIPO patent (SZ), ARIPO utility model (TZ), ARIPO patent (TZ), ARIPO utility model (UG), ARIPO patent (UG), ARIPO utility model (ZM), ARIPO patent (ZM), ARIPO utility model (ZW), ARIPO patent (ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CII, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN. TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: METHOD, SYSTEM AND USER TERMINAL FOR COLLECTING INFORMATION ON AUDIENCE OF BROAD-CAST MEDIA STREAM



(57) Abstract: The invention is related to a method for collecting information on an audience of a broadcast media stream. The method comprising: broadcasting a media stream on at least one broadcast channel of the broadcast system, transmitting parallel information on at least one parallel channel which parallel information is associated and synchronized with the media stream of at least one broadcast channel, connecting the audience to the media system as pas-sive users or active users, the active users receiving the parallel information and the passive users not receiving the parallel information, collecting information on the audience connected to the media system, the information being on active users and/or passive users, processing the collected information in a predetermined way.

03/090482 A1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 03/00288

A 67 46	0151045101101101101101101101101										
A. CLASSIFICATION OF SUBJECT MATTER											
IPC7: H04Q 7/00 According to International Patent Classification (IPC) or to both national classification and IPC											
B. FIELDS SEARCHED											
Minimum documentation searched (classification system followed by classification symbols)											
IPC7: H04Q, G06F, H04L											
Documenta	tion searched other than minimum documentation to	the extent that such documents are included	in the fields searched								
SE, DK, FI, NO classes as above											
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)											
C DOCUMENTS CONSIDERED TO BE DELEVANT											
C. DOCUMENTS CONSIDERED TO BE RELEVANT											
Category*	Citation of document, with indication, where a		Relevant to claim No.								
A	WO 0199411 A1 (MINERVA NETWORKS 27 December 2001 (27.12.01) abstract	1-24									
A	EP 1096743 A1 (LUCENT TECHNOLOG 2001 (02.05.01), see paragr [0030] - [0037]	1-24									
	₩=	Ø.									
A	WO 9935839 A1 (INTEL CORPORATIO (15.07.99), figure 7, abstr	1-24									
			:								
Further documents are listed in the continuation of Box C. X See patent family annex.											
"A" documen	categories of cited documents: It defining the general state of the art which is not considered particular relevance	"T" later document published after the inter- date and not in conflict with the applic the principle or theory underlying the i	ation but cited to understand								
	pplication or patent but published on or after the international	"X" document of particular relevance: the o									
"L" documer	nt which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other	step when the document is taken alone	ed to involve an inventive								
specialr	eason (as specified) at referring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination									
"P" document	it published prior to the international filing date but later than ity date claimed	being obvious to a person skilled in the	art]								
	actual completion of the international search	"&" document member of the same patent family Date of mailing of the international search report									
	,	-									
O July	2003	1 5 -07- 2003									
Name and r	mailing address of the ISA/	Authorized officer									
	atent Office										
	S-102 42 STOCKHOLM o. + 46 8 666 02 86	Stefan Hansson/mj									
DESTRUCT		Telephone No. +46 8 782 25 00									

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

Patent document cited in search report		itent family members	29	29/06/03		PCT/FI 03/00288			
		Publication date	P	Patent family member(s)			Publication date		
MO	0199411	A1	27/12/01	AU CN	68107 13863	01 A 362 T	02/ 18/	01/02 12/02	
EPROT	1096743 ECT AUT	QA1	02/05/01	NONE					
		@PJ	L SET RES	OLUTIO		PJT.	ENTER	I.ANGI	 JAGE=P
								DANG	JAGE=P
			·						
								•	
	•								
									ı